“1 metre” Cross Parachute[1]

Note “1 metre” refers to the nominal size, that is, the average dimensions of the long and short sides.

- Use ripstop nylon for best results. I used 70 g/sq.m. (2 oz/sq.yd.) fabric, lighter would be fine.
- Use nylon “braided cord” for shroud lines (found in camping section of stores). It is flat and easy to sew.

1 Measure and cut two panels 152 x 50 cm. This includes 2 cm on each long edge for hem.

2 Make hem along the four long sides same procedure as for the “semiellipsoidal” parachute.

3 Cut four pieces of hem tape of length equal to long side. Hem tape has heat-activated adhesive on one side.

4 Using iron, press hem tape in place along each of the four long sides

5 Using zigzag stitch & nylon thread, sew hem tape in place same procedure as for the “semiellipsoidal” parachute.

6 Lay two panels across, one on top of the other, and measure and mark such that they are aligned equally. Baste stitch panels together.

7 Using zigzag stitch & nylon thread, sew panels together along the four short sides that intersect.

8 Cut 4 shroud lines to length of 220 cm. Heat seal the ends to prevent fraying.

9 Feed the four shroud lines through a 10 cm. length of heat-shrink tubing, which will later be used to form the end loop.

10 Using zigzag stitch & nylon thread, sew shroud lines in place (8 locations).

11 Using same procedure as for the “semiellipsoidal” parachute, gather the shroud lines and form loop at the end using heat shrink tubing.

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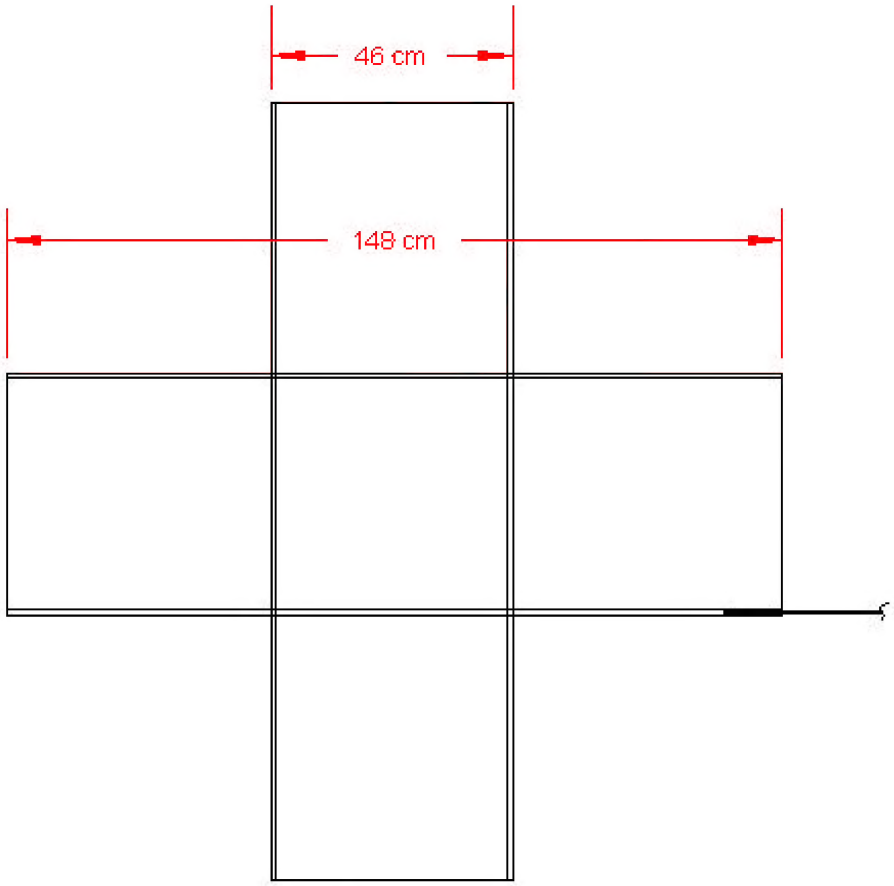
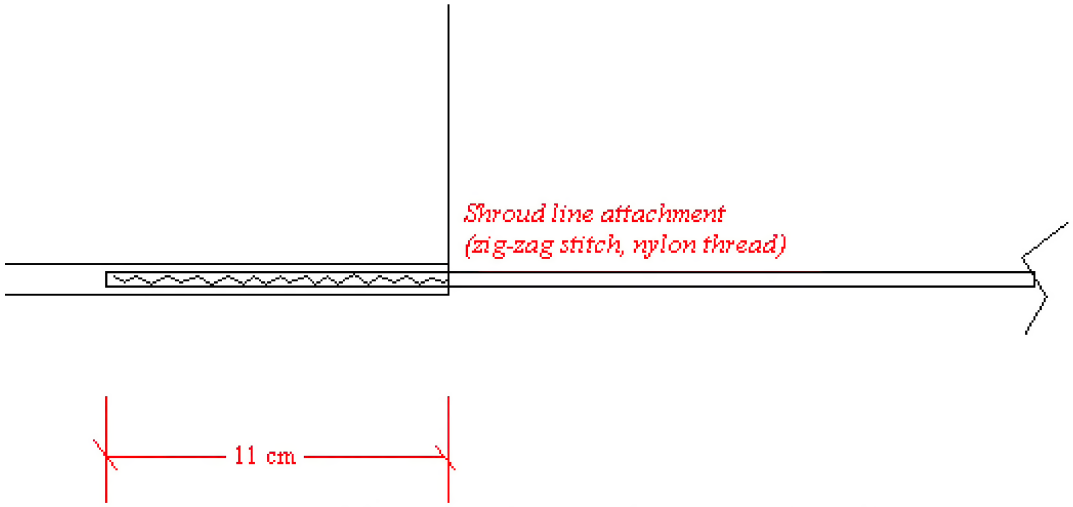
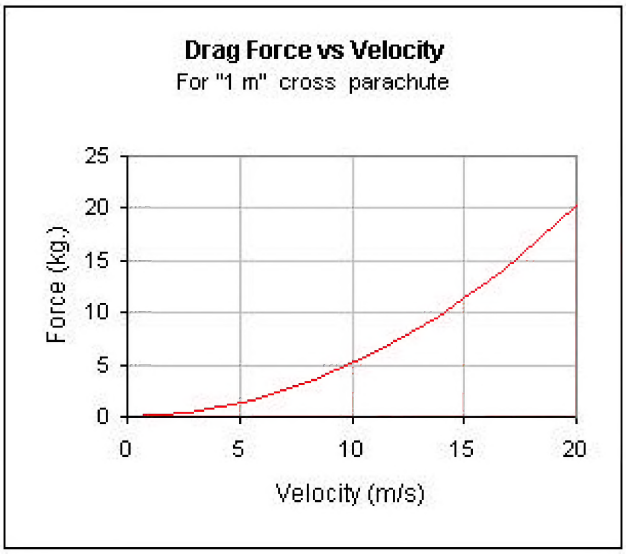
[1] Design by R.Nakka 2004 Rev.1.1

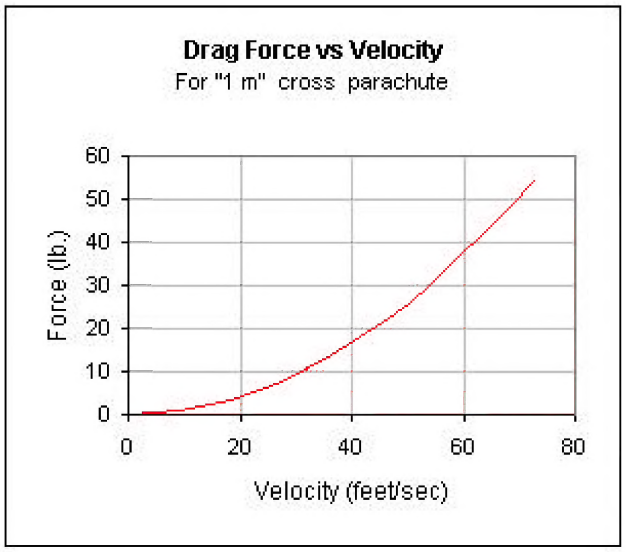


Finished panel sizes



Shroud line attachment detail (8 places)





Drag characteristics of the 1 metre cross chute

“Wind testing” of finished “1 metre” cross parachute